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# Council Study

## Progress Update: Formulation of Development Scenarios - Agriculture and Land Use Change



5<sup>th</sup> RTWG Meeting  
Siem Reap, Cambodia  
13-14 August 2015

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## Technical Working Session on 9 July 2015



Discussed and agreed on:

- (1) Overall context and guidance for formulation of sub-scenario development
- (2) Approach, methodology and proposed for sub-scenarios development
- (3) Data requirements and handling data gaps
- (4) Detailed schedule

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## Overview of Scenarios



- Early Development Scenario (2007)
- Definite Future Scenario (2020)
- Planned Development Scenario (2040)

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## Agriculture and Land Use Change



Sub-sectors will be considered:

- Irrigated Agriculture (\*)
- Rain-fed Agriculture
- Surface Mining
- Forestry
- Urban area development (\*\*)

(\*): Irrigation Thematic area

(\*\*): Domestic and industrial water use Thematic area

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## 2040 PDS in Agriculture and Land Use Change

### 2040 Planned development scenarios

#### *including:*

- All specific plans, high feasibility (*ex. plan to 2020/ 2025*)
- All visions/ development directions to 2040 or before

**2040** (*ex. vision of agriculture development to 2030*)

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## Sub-Scenarios

- The Thematic Sub-Scenarios represent **plausible thematic-specific deviations from the 2040 PDS**
- These thematic-specific deviations reflect **level of uncertainties in the full implementation** of the planned development level for the thematic area of interest as per the 2040 PDS

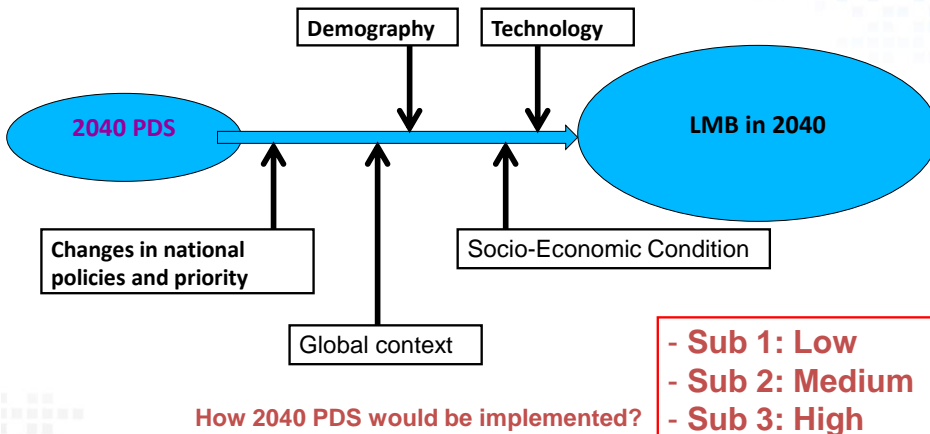
(Workplan of scenarios development)

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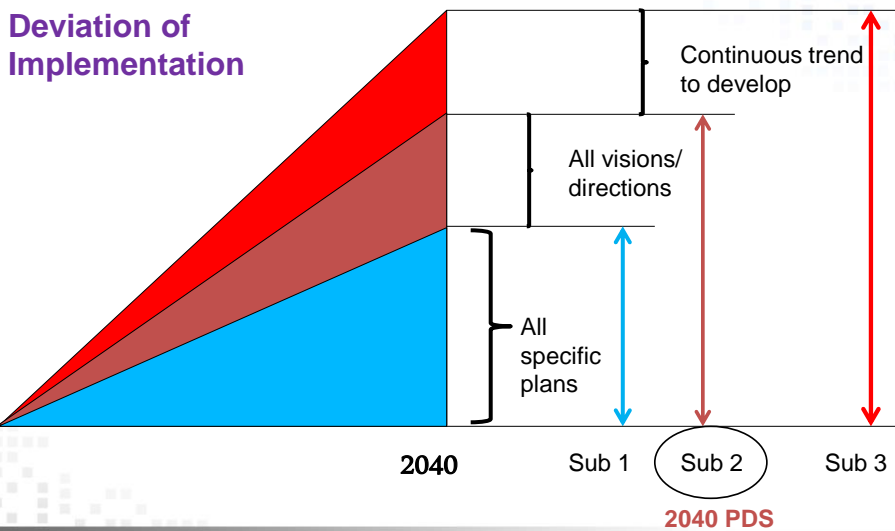


# Factors impact to implementation

*From planning to reality.....*



# Scope of Sub-Scenarios



### 3 sub-scenarios



-Sub-scenarios 1: Low level of PDS implementation achievement : only all specific plans are implemented

-Sub-scenarios 2: Medium development: all specific plans + all vision/ development directions are implemented

-Sub-scenarios 3: High development: all specific plans + all visions/ development directions + continued trend to develop are implemented.

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### Methods to formulate sub-scenarios



- Apply concept of PDS and sub-scenarios
- Participatory approach with an approval from MCs for formulated scenarios
- Data collection: available secondary data
- Using mathematical model, data assumption and spatial distribution approaches with highest land suitability and simplification for addressing data gaps.

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# Required dataset for scenarios development



## *What information do we need?*

- 1. Early development 2007*
- 2. Definite development 2020*
- 3. Current situation*
- 4. Plans (including specific plans and other such as visions and development directions)*

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## Dataset for current situation



- Current land use (map and report)
- Demography
- Socio-economic condition and national development policies

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## Dataset for current situation



- Data on area, production, technology, water use and land suitability in each sector:
  - Rain-fed agriculture
  - Surface mining
  - Forestry

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## Dataset for plans



- Land use plan (map and report): area and spatial distribution of each sector development

*Example:* Land use plan to 2020 in Mekong Delta

- Sector development plans on **rain-fed agriculture, forestry, surface mining**: area, spatial allocation, production, technology, water use, investment...

*Example:* Agriculture development plan to 2020

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## Dataset for plans (cont.)



- Vision/ development directions on land use: changes in land allocation
- Vision/ development directions on sector development on rain-fed agriculture, forestry and surface mining: changes in area, production, technology, water use efficiency etc.

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## Guidelines of data collection



1. Land use specifications
2. Mining development and their environmental impacts

- Prepared data templates with Excel file.

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## Schedule (1)



No.	Activity	Lead	Due Date	Note
1	Develop work plan	AIP Team. Consult with CS Coordinator	12/06/2015	
2	Technical working session on scenarios development for Agriculture and Land use Change thematic theme	Regional AIP Team	09/07/2015	
3	3.1 Revise data template, guideline in detail for data collection, addressing comments at meeting 3.2 Send data template, guideline to consultants to get final comments 3.2 Send available data at MRCS to consultants	Regional AIP Team	14/07/2015	
4	Finalize data template and guideline, send to consultants	Regional AIP Team	18/07/2015	
5	Conduct data collection	National consultants	18-28/07/2015	
6	Conduct data analysis, identify data gap and develop sub-scenarios for each MC	National consultants and AIP technical support	28/07-15/08/2015	
7	Progress report to 5 <sup>th</sup> RTWG	AIP Team	Early Aug 2015	

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## Schedule (2)



No.	Activity	Lead	Due Date	Note
8	National consultation meeting for seeking comments on sub-scenarios	NMCs	06-30/08/2015	Aug-Sep
9	Conduct final data collection	National consultants	01-20/09/2015	
10	Improve sub-scenarios and submit scenarios development documents	National consultants	01-23/09/2015	
11	Approval of sub-scenarios	AIP Team and NMCs	23-30/09/2015	
12	Submit scenarios development documents to CS Coordinator	AIP Team	30/09-01/10/2015	
13	Submit 6 <sup>th</sup> RTWG Briefing Materials	CS Coordinator	02/10/2015	Include Scenarios/Sub-scenarios Data/Map Specification Document

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Thank you



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